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UNITED STATES MARITIME COMMISSION

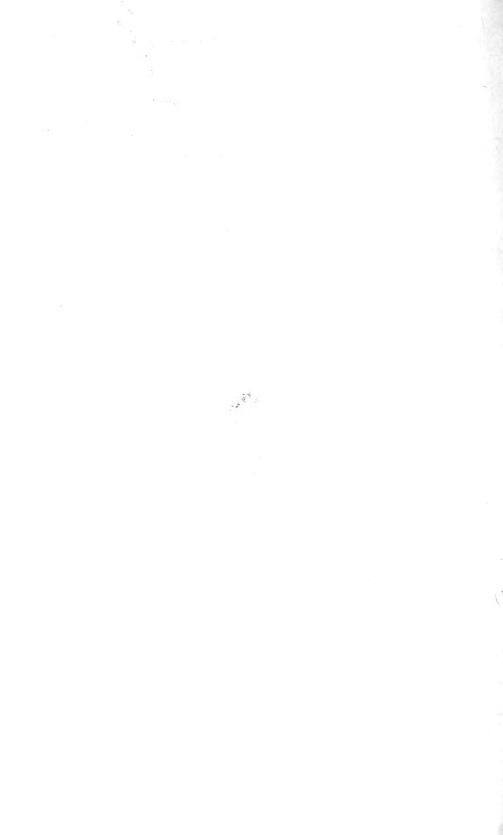
Extension Courses

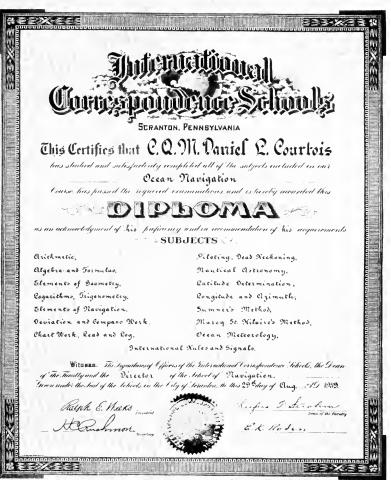
FOR

PERSONNEL OF THE AMERICAN MERCHANT MARINE

OCTOBER 1939







Headqueston U.S. Coast Smart, Washington, V.E. Francestop upon the Completion of the Course in The Court Smart Brotherse —

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Diploma issued by Coast Guard Institute



ESTABLISHMENT OF EXTENSION COURSES

Extension courses are offered to personnel of the American Merchant Marine by the United States Maritime Commission in accordance with a statute which provides:

The Commission is hereby authorized to prescribe, conduct, and supervise such extension and correspondence courses as it may deem necessary to supplement other training facilities, and to make such courses available, under such rules and regulations and upon such terms as it may prescribe, to the licensed and unlicensed personnel of the merchant marine, and to eadets and cadet officers who shall make application therefor.

WHO IS ELIGIBLE

The extension courses are offered to seamen of oceangoing and Great Lakes vessels who are active in their calling. A minimum of 12 months' service on seagoing or Great Lakes vessels over 500 gross tons during the 3 years immediately preceding the date of application is required. Both licensed and unlicensed seamen may apply for enrollment. In order to determine that applicants have the necessary educational qualifications to undertake the courses for which they apply, each application must be endorsed by the master, chief engineer, or chief purser of a vessel on which the applicant has served. Enrollees who fail to submit a reasonable number of lessons for review or who fail to continue their calling as seamen may be disenrolled.

CADET OFFICERS AND CADETS

Cadet officers and cadets should apply for extension courses to the Supervisor of Cadet Training. Required courses are prescribed by the regulations for cadet officers and cadets.

HOW TO APPLY

An application should be submitted on the form provided by the Maritime Commission. Forms may be obtained in the principal seaports at the offices of the Maritime Commission, Coast Guard, and shipping commissioners. The applicant should fill out the form, have it endorsed by the master, chief engineer, or chief purser of a vessel on which he has served, and forward it to the United States Maritime Service, Washington, D. C.

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COURSES AVAILABLE

The Maritime Commission has arranged for the Coast Guard Institute at New London, Conn.; to administer the extension courses offered to seamen. Most of these are the regular correspondence courses published by the International Correspondence Schools of Scranton, Pa. The papers submitted by students will be reviewed and graded by Coast Guard personnel who have qualified for such duty according to the standards of the International Correspondence Schools. In addition, courses of special interest to seamen, not included in the International Correspondence Schools list, will be made available through the Coast Guard Institute. An appropriate diploma will be issued to each student completing a course satisfactorily. Unless otherwise noted, courses listed in this pamphlet refer to those issued by the International Correspondence Schools.

COST TO STUDENTS

The only cost to students will be for payment of pamphlets issued by the Coast Guard Institute and for necessary postage. Each application for enrollment must be accompanied by a money order covering the total cost of pamphlets for the course desired as indicated below. This money order should be made payable to the Treasurer of the United States. Pamphlets become the property of the student. No refund will be made on account of the failure of a student to complete a course, but all pamphlets paid for will be issued upon request. The cost of administration and salaries of instructors will be borne by the Maritime Commission, and students will pay only for study material which becomes their property.

INFORMATION AND APPLICATIONS

Seamen who desire to take advantage of the courses offered by the Maritime Commission or who require further information should address—

U. S. Maritime Service, Washington, D. C.

LIST OF CORRESPONDENCE COURSES AVAILABLE

KDB	MOTORBOAT NAVIGATION		KDB
No.	Title	Lessons	Price
1464 1465-A 1465-B 1466-A 1466-B 1467-A 1467-B 1468-A 1468-B 5272	Nautical Terms Motorboats do. Marine Gasoline Engines do Management of Marine Gasoline Engines do. do. Motorboat Navigation do. Motorboat Rules and Signals Final examination	1 1 1 1 1 1 1 1 1	
	Total	11	\$4. 2

Total).	Title	Lessons	Price
	1975	Elements of Arithmetic	1	
		Fractions	1	
Fowers and Roots	1977	Decimals		
Fowers and Roots		Weights and Measures		
Formulas		Powers and Roots		
Belments of Geometry		Formulas	i	
The Compass		Elements of Geometry	i	
Introduction to Snip Dratting (for reference only) The Compass		Elements of Navigation	1	
Chart, Lead, and Low		Introduction to Ship Draiting (for reference only)		
Chart, Lead, and Log Useful Tables (Bowditch) (no lesson)	-A.	The Compass		
		Chart Lead and Log		
		Useful Tables (Bowditch) (no lesson)		
A		Piloting	1	
A		Logarithms		
A		Trigonometry	1	
Abridged Nautical Almanac (for reference only)	A. D	Dead Reckoning	1	
A Natical Astronomy.				
B	A	Nautical Astronomy	1	
Summer's Method	В	do	1	
Summer's Method	31	Latitude	1	
Marcq. St. Hilaire's Method 1 3 4 4 5 5 5 5 5 5 5 5		Longitude and Azimuth	l	
1	53 A	Marga St Hilaire's Method	1	
International Rules and Signals 1	R.	do	i	
International Rules and Signals 1	37	Ocean Meteorology	1	
Final examination		International Rules and Signals		
Total	642	btowage or Cargo		
SHORT MARINE ENGINEER'S COURSE IBBV		Final examination	1	
[International Correspondence Schools certificate issued in lieu of a diploma] Factions		Total	28	\$12.13
[International Correspondence Schools certificate issued in lieu of a diploma]	-			
Towers and Roots 1	75			
Fowers and Roots		Elements of Arithmetic		
Fowers and Roots	6	Elements of Arithmetic Fractions	1	
Fower and Roots	76 77	Elements of Arithmetic. Fractions Decimals Weights and Measures	1	
New Normalian 1	76 77 78	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion	1 1 1	
Heat Steam	76 77 78 79	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots	1 1 1 1	
Heat	76 77 78 79 80 81	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1 1 1 1 1	
Heat Steam	76 77 78 79 80 81 82	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1 1 1 1 1	
Caccompanied by Keenan's Steam Tables Caccompanied by Keenan's Steam Tables Types of Marine Boilers Image: Caccompanied by Keenan's Steam Tables Image: Cacc	76 77 78 79 80 81 82 A	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1 1 1 1 1 1	
Types of Marine Boilers	76 77 78 79 80 81 82 A	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do	1 1 1 1 1 1 1	
A Marine Boiler Details (optional) 1 B do. 1 36 Pipes and Pipe Fittings 1 A Marine Boiler Accessories 1 B - do. 1 53 Fuels and Combustion 1 3E Elements of Oil Burning 1 4 Marine Boiler Feeding 1 A Marine Boiler Feeding 1 B do 1 9 Marine Engine Mechanism 1 A Marine Slide-Valve Gears 1 B do 1 Condensers 1 A Multiple-Expansion Marine Engines 1 65 Condensers 1 A Marine Pumps 1 B do 1 Steam Turbines 1 71 Principles of the Steam Turbine 1 72 Marine Steam Turbines 1 Final examination 0	76 77 78 79 80 81 82 A B 77	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam	1 1 1 1 1 1 1 1	
Martine Dotter Petriting 1	976 977 978 979 980 981 982 -A -B 877	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accomparied by Keenan's Steam Tables)	1 1 1 1 1 1 1 1	
Section Sect	976 977 978 979 980 981 982 A B 877 878	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Section Sect	976 977 978 979 980 981 982 ⊢A ⊢B 877 878	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Section Sect	976 977 978 979 980 981 982 -A 877 878	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
State Stat	976 977 978 979 980 980 981 982 -A -B 877 878	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings		
Description	976 977 978 979 980 981 982 -A -B 877 878 850 -A -B 8336 -A -B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principlesdo Heat Steam		
15-B	976 977 978 979 980 981 982 5-B 887 1-B 1-A 1-B 1836 1-A 2-B 8853	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Euels and Combustion		
Description	976 977 978 979 980 981 982 -A -B 877 878 850 -A -B 853 843	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Euels and Combustion		
Marine Engine Mechanism	976 977 978 979 980 981 982 ⊢B 877 878 850 −A ⊢B 853 843 884	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Euels and Combustion		
Condensers	976 977 978 979 980 981 982 ⊢B 877 878 850 −A ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢A ⊢B 836 ⊢A ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 836 ⊢B 837 ⊢B 836 ⊢B 837 ⊢B 837 ⊢B 838 HB 838 HB HB HB HB HB HB HB HB HB HB	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feeding		
Condensers	976 977 978 979 980 981 982 -A -B 853 854 -B 853 854 -A -B 853 854 -A -B 855 856 -B 857	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedling Marine Boiler Feedling Marine Boiler Peedling Oil Burning Under Marine Boilers Marine Boiler Feedling do Marine Engine Mechanism		
Sec Condensers 1	976 977 978 979 980 980 981 981 877 878 850 -AB 853 843 854 6-AB 854 6-AB 855 854 6-AB 855 854 855 856 857 858 858 858 858 858 858 858	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedling Marine Boiler Feedling Marine Boiler Peedling Oil Burning Under Marine Boilers Marine Boiler Feedling do Marine Engine Mechanism		
9-A Marine Pumps. 1 9-B do. 1 2873 Marine Lubrication 1 2315 Steam Turbines 1 2871 Principles of the Steam Turbine 1 2872 Marine Steam Turbines 1 Final examination 0	976 977 978 978 9980 981 982 5-A 5-B 8878 2878 1-A 1-B 2836 1-A 22-B 2854 32854 5-A 5-B 32854 33-B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedling Marine Boiler Feedling Marine Boiler Peedling Oil Burning Under Marine Boilers Marine Boiler Feedling do Marine Engine Mechanism		
1	976 977 978 978 979 981 982 5-A 1-B 856 1-B 856 1-B 8536 2-A 1-B 8536 2-B 1854 3-B 1854 3-B 1854 3-B 1854 3-B 1855 3-B 1856 3-B 1857 3	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principlesdo Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional)do Pipes and Pipe Fittings Marine Boiler Accessoriesdo Freels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedingdo Marine Engine Mechanism Marine Slide-Valve Gearsdo Marine Slide-Valve Gearsdo Multiple Expansion Marine Engines		
Marine Lubrication	976 977 978 989 980 981 982 5-A 887 887 887 887 888 888 888 88	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Files and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Engines Condensers		
Principles of the Steam Turbine	976 977 978 989 989 980 981 982 -B 878 850 -B 853 854 -B 854 854 -B 856 -B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principlesdo Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional)do Pipes and Pipe Fittings Marine Boiler Accessoriesdo Pipes and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedingdo Marine Engine Mechanism Marine Slide-Valve Gearsdo Multiple-Expansion Marine Engines Condensers Marine Pumpsdo		
Thicpies of the steam Turbines 1	976 977 978 978 988 988 988 988 988 988 988	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Lubrication Marine Lubrication		
Final examination 0	976 977 978 989 981 981 95-B 887 5-B 887 8850 1-A 1-S 2-A 2-B 3884 3884 5-A 3-B 3884 3-B 3-B 3-B 3-B 3-B 3-B 3-B 3-B 3-B 3-B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principlesdo. Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional)do Pipes and Pipe Fittings Marine Boiler Accessoriesdo Pipes and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedingdo Marine Engine Mechanism Marine Engine Mechanism Marine Slide-Valve Gearsdo Multiple-Expansion Marine Engines Condensers Marine Pumpsdo Marine Lubrication Steam Turbines		
	976 977 978 989 981 981 95-B 85-B 887 1887 1887 1887 1887 1887 1887 1887	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles decimals Merine Boiler Accomparied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Fittings Marine Boiler Accessories do Fiels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Pumps do Marine Lubrication Steam Turbines Principles of the Steam Turbine		
Total	1976 1977 1978 1978 1980 1980 1981 255-A 55-B 2877 2878 2850 11-B 2853 28-43 28-54 55-B 2853 33-B 2864 2964 297 2877	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Fittings Marine Boiler Accessories do Fuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feedling do Marine Engine Mechanism Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Lubrication Steam Turbines Principles of the Steam Turbine Marine Steam Turbines Principles of the Steam Turbine Marine Steam Turbines		

No.	Title	Lessons	Pi
1975	Elements of Arithmetic	1	
1976	Fractions	1	1
1977	Decimals		
1978	Weights and Measures	1	
1979	Neights and Measures	1	
1979	Ratio and Proportion.	1	
	Powers and Roots	1	
1981	Mensuration	1	
1982	Formulas	1	
1983	Cube Root	1	
1965-A	Mechanical Principles do.	1	
1965–B	do	1	
2160	Strength of Materials	1	l
2877	Heat	i	
2878	Steam	î	1
	(Accompanied by Keenan's Steam Tables)	1	
2850	Types of Marine Boilers	1	
2851-A	Marine Boiler Details	i	1
2851-B	do		
2852-A	Morino Bollon A consider	1	
	Marine Boiler Accessories	1	
2852-B	do.	1	
2853	ruers and Compustion	1	
2843	Elements of Oil Burning	1	
2854	Ou burning Under Marine Bollers	1	
2431-A	Pulverized Coal Burning	1	
2431-B		1	
2855-A	Marine Boiler Feeding	i	
2855-B	do	î	
2856	Marine Boiler Management	î	
2857	Marine Boiler Repairs	î	
5262	Marine Boiler Specifications	1	
5263	Marine Boiler Inspection	í	
2859	Marine Engine Mechanism	1	
2861	Indicating Cham Engine		
2862	Indicating Steam Engines	1	
	Engine Testing	1	
2863-A	Marine Slide-Valve Gears	1	
2863-B	dodo	1	
2864	Multiple-Expansion Marine Engines	1	
2865	Condensers	1	
2866-A	Marine Engine Management	1	
2866-B	dodo	1	
2867	Marine Engine Repairs Steam Turbines	1	
2315	Steam Turbines	i	
2871	Principles of the Steam Turbine	î	
2872	Marine Steam Turbines	î	
2868	Marina Dock Machinery	1	
2869-A	Marina Pumpa	í	
2869-B	Marine Steam Turbines Marine Deck Machinery Marine Pumps	1	
2870	Propulsion of Vegasla		
	Propulsion of Vessels Marine Lubrication Principles of Marine Refrigeration	1	
2873	Marine Lubrication	1	
2886	rrinciples of Marine Refrigeration	I	
2887	Marine Ammonia Refrigeration Apparatus	1	
2888	Marine Applications of Refrigeration	1	
2889	Management of Marine Reirigeration Machinery	1	
2700-A	Electricity and Magnetism	1	
2700-B	do	Ī	
2716	Theory and Construction of Direct-Current Motors and Generators	i	
2715	Characteristics of DC. Motors and Generators	î	
2367	Alternating-Current Generators, Transformers, and Motors	i	
2369	Electrical Measuring Devices	î	
2239	Elements of Riverrint Reading (antional)	í	
2240-A	Reading Shop Blueprints (optional)		
2240-A 2240-B	Elements of Blueprint Reading (optional) Reading Shop Blueprints (optional) do.	1	
2240-B	40	1	
2240-C	(10	1	
2240-D	do	1	
2249	Machine Sketching (optional)	1	
	Machine Sketching (optional) Final examination	1	
	Total	65	\$

INTERNAL-COMBUSTION ENGINES MRU

No.	Title	Lessons	Price
1975	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas	1	
1976	Fractions.	1	
1977	Weights and Massures	1	
1978 1979	Ratio and Proportion	1	
1980	Powers and Roots.	î	
1981	Mensuration	i	
1982	Formulas The Slide Rule (optional) Mechanical Principles do Elementary Principles of Electricity	1	
5364	The Slide Rule (optional)	1	
1965-A 1965-B	do	I	
31 17	Elementary Principles of Electricity	1	
2877	Heat	i	
3135	Combustion and Fuels	1	
3136	Principles of the Internal-Combustion Engine	1	
7-A 7-B	Combustion and Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do	1	
8~A	do High-Speed Diesel Engines do	i	
8-B	do	i	
5-A	Marina Diagal Finginas	1	
-B	do	1	
139	do Diesel Engine Details Gas Engines do Carburetors.	1	
9−A 9−B	do do	1	
151	Carburetors	1	
)-A	Electric Ignition Devices	i	
0-B	Carpuretors Electric fgnition Devices do Internal-Combustion Engine Auxiliaries and Installation Lubrication. Management of Dissel Engines	1	
3140	Internal-Combustion Engine Auxiliaries and Installation	1	
141	Management of Dissal Engines	1	
182	Management of Diesel Engines Gas Engine Management	1	
142	Internal-Combustion Engine Testing	1	
144	Diesel Engine Troubles and Remedies	i	
	Gae Engine Troubles and Demedies	1	
3-A	das Englide Troubles and Remedies		
3-B	dodQ	i	
-B	do. Lubrication and Cooling Troubles and Remedies	i 1	
83-A 83-B 5253	Gas Engine Management. Internal-Combustion Engine Testing. Diesel Engine Troubles and Remedies. Gas Engine Troubles and Remedies. do. Lubrication and Cooling Troubles and Remedies Final examination.	i 1 1	010.00
83-B	do. Lubrication and Cooling Troubles and Remedies Final examination. Total	i 1	\$18. 20
5183-A 5183-B 5253 R R		i 1 1	\$18. 20 MRR
183-B 5253	Total	i 1 1	1
83-B 5253 R	DIESEL ENGINES	i 1 1	1
3-B 3253 3253	DIESEL ENGINES	i 1 1	1
3-B 3253 3253 975 976 977	DIESEL ENGINES	i 1 1	1
3-B 5253 8 1975 1976 1977	DIESEL ENGINES	i 1 1	1
975 976 977 978 979	DIESEL ENGINES	i 1 1	1
975 976 977 978 979 980	DIESEL ENGINES	i 1 1	1
-B 253 253 275 276 277 278 279 280 281	DIESEL ENGINES	i 1 1	1
975 976 977 978 979 980 981 981 982	DIESEL ENGINES	i 1 1	1
3-B 5253 1975 1976 1977 1978 1979 1980 1981 1982 5384 5-A	DIESEL ENGINES	i 1 1	1
-B	Total. DIESEL ENGINES Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Side Rule (optional). Mechanical Principles.	i 1 1	1
975 976 977 978 980 980 981 982 981 982 55-A 55-B 8147	Total. DIESEL ENGINES Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Side Rule (optional). Mechanical Principles.	i 1 1	1
975 976 977 978 979 980 981 982 361 5-A 147	Total. DIESEL ENGINES Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Side Rule (optional). Mechanical Principles.	i 1 1	1
3-B 1975 1976 1977 1978 1979 1980 1981 1982 1982 1982 1983 1984 1985 1985 1985 1986 1987 1988 1988 1988 1988 1988 1988 1988	Total. DIESEL ENGINES Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Side Rule (optional). Mechanical Principles.	i 1 1	1
-B 253 375 376 377 3	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine	i 1 1	1
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3-B 5253 1975 1976 1977 1978 1989 1981 1982 2877 3136 17-A 17-B 8-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine	i 1 1	MRR
3-B 5253 1975 1976 1977 1978 1980 1981 1982 5-A 5-B 2877 3135 7-A 7-B 8-A 8-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine	i 1 1	MRR
3-B 5253 1975 1976 1977 1978 1979 1981 1982 5-A 5-B 8147 7-B 8-A 8-A 8-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine	i 1 1	MRR
3-B 55253 1975 1976 1977 1978 1979 1989 1989 1982 5-A 5-B 3344 7-B 8-A 8-B 8-A 8-B 8-A 8-3 13139	Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas. The Slide Rule (optional) Mechanical Principles do. Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do High-Speed Diesel Engines do Diesel Engines Diesel Engines Diesel Engines Diesel Engines	i 1 1	MRR
R 1975 1976 1977 1978 1979 1980 1981 1982 2877 2877 31336 17-A 8-B 8-A 8-B 8-A 8-B 15-B 8-A 8-B 8-B 15-B 8-A 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details	i 1 1	MRR
R 1975 1976 1977 1978 1979 1980 1981 1982 1985 1985 1987 1987 1988 1987 1988 1987 1988 1988	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details	i 1 1	MRR
3-B 5253 1975 1976 1977 1978 1979 1980 1981 5-A 8-A 8-A 8-A 8-A 8-B 8-A 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B 8-B	Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The S'ide Rule (optional). Mechanical Principles. do. Elementary Principles of Electricity. Heat Combustion of Puels. Principles of the Internal-Combustion Engine Stationary Diesel Engines. do. High-Speed Diesel Engines. do. Marine Diesel Engines. do. Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Lubrication	i 1 1	MRR
3-B 5253 1975 1976 1977 1978 1981 1982 1982 1982 1983 147 7-B 8-B 8-B 8-B 139 100 100 100 100 100 100 100 100 100 10	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The S'ide Rule (optional) Mechanical Principles do Blementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional)	i 1 1	MRR
3-B 5253 1975 1976 1977 1976 1977 1978 1979 1980 1978 197	Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The S'ide Rule (optional). Mechanical Principles. do Elementary Principles of Electricity. Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines. do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Internal-Combustion Engine Testing. Management of Diesel Engines	i 1 1	MRR
R 1975 1976 1977 1978 1978 1978 1978 1989 1989 1989	Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The S'ide Rule (optional). Mechanical Principles. do Elementary Principles of Electricity. Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines. do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Internal-Combustion Engine Testing. Management of Diesel Engines	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MRR
883-B 5253 1975 1977 1977 1978 1979 1980 1981 1982 1982 1983 1984 1984 1985 1987 1988 1987 1988 1988 1988 1988 1988	Arithmetic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MRR
RR 1975 1976 1977 1978 1979 1981 1980 1981 1982 5364 3147 3135 317-A 3138-A 3138-A 3138-A 3138-A 318-B 3189-A 31415-A 3143-A 3144-A 314-A 3144-A 314-A 3144-A 314-A 3144-A 3144-A 3144-A 3144-A 3144-A 3144-A 3144-A 3144-A 3144-	Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The S'ide Rule (optional). Mechanical Principles. do Elementary Principles of Electricity. Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines. do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Internal-Combustion Engine Testing. Management of Diesel Engines	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MRR

No.	Title	Lessons	Price
1975	Elements of Arithmetic	1	
1976	Elements of Arithmetic. Fractions. Decimals.	î	
1977	Decimals	1	
1978	Weights and Measures	1	
$\frac{1979}{1980}$	Regights and Measures. Ratio and Proportion. Powers and Roots.	1	
1980	Monguestion	1	
1982	Mensuration Formulas (optional). Measuring Instruments Elementary Chemistry.	i	
2209	Measuring Instruments	i	
2202	Elementary Chemistry	1	
5110	Metallurgy of Iron	1	
$\frac{5111}{2333}$	Metallurgy of Manformana Metala and Engla	1	
2344	Elements of Metallography (optional)	1	
5153	Gas Welding Equipment	i	
5154	Gas Welding of Carbon Steels	1	
5155	Gas Welding of Cast Iron and Alloy Steels	1	
5156	Elementary Chemistry. Metallurgy of Iron Metallurgy of Steel Metallurgy of Nonferrous Metals and Fuels Elements of Metallography (optional) Gas Welding Equipment Gas Welding of Carbon Steels Gas Welding of Cast Iron and Alloy Steels Gas Cutting Gas Welding of Pipe Gas Welding of Nonferrous Metals and Overlaying	1	
5157 5158	Cas Welding of Nonferrous Matals and Overlaying	1	
5159	Gas Welding Examples	1	
5247	Electricity for Welders	i	
5248	Are Welding Equipment	1	
49-A	Are Welding of Low Carbon Steels	1	
19-B 5250	Are Welding of Alley Steels and Irons	1	
5251	Are Welding of Nonferrous Metals and Overlaving	1	
5252	Resistance Welding	î	
5160	Inspection and Testing of Welds	1	
2207	General Appliances and Processes (optional)	1	
2239	Gas Cutting Gas Welding of Nonferrous Metals and Overlaying Gas Welding of Nonferrous Metals and Overlaying Gas Welding Examples Electricity for Welders Are Welding Equipment Are Welding of Low Carbon Steels do Are Welding of Alloy Steels and Irons Are Welding of Alloy Steels and Irons Are Welding of Monferrous Metals and Overlaying Resistance Welding Inspection and Testing of Welds General Appliances and Processes (optional) Elements of Blueprint Reading (optional) Final examination	1	
	Total	32	812
В	AVIATION MECHANICS		мтв
1975	Elements of Arithmetic	1	
1975 1976	Elements of Arithmetic	Î	МТЕ
1975 1976 1977	Elements of Arithmetic		
1975 1976 1977 1978 1979	Elements of Arithmetic Fractions Decimals Weights and Measures	Î 1	
1975 1976 1977 1978 1979 1980	Elements of Arithmetic Fractions Decimals Weights and Measures	Î 1 1	
1975 1976 1977 1978 1979 1980 1981	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1 1 1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 265-A 65-B 2877 3135	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-A 3135 3136	Elements of Arithmetic Fractions Decimals Weights and Measures	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136	Elements of Arithmetic Fractions Decimals Weights and Measures		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136 163-A	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136 163-A 163-C 5164	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136 163-A 163-B 163-C 5164	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 163-B 163-C 5164 3147 2522	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1978 1980 1981 1982 965-B 2877 3135 3136 163-A 163-B 163-C 163-C 2523	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136 163-B 163-B 163-C 5164-3147 2522 2523 2523	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do		
1975 1976 1977 1978 1979 1980 1981 1982 965-B 2877 3135 3136 163-B 163-C 5164 2522 2523 2524 2524 2524 2524	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Alensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Management Aviation Engine Management Aviation Engine Maintenance The Airplane and Us Parts		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 163-A 163-A 163-C 5164 3147 2522 2523 310-A 310-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Alensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Management Aviation Engine Management Aviation Engine Maintenance The Airplane and Us Parts		
1975 1976 1977 1978 1979 1980 1981 1982 965-B 2877 3135 3136 163-B 163-B 163-B 2523 2524 2523 310-A 310-A 310-B 5311	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Alensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Accessories Aviation Engine Management Aviation Engine Management Aviation Engine Maintenance The Airplane and Us Parts		
1975 1976 1976 1977 1978 1979 1981 1982 965-A 965-B 2877 3136 163-C 5163-A 163-C 5164 3147 2522 2523 2524 2525 310-A 310-B 5311 5312	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Aviation Engine Management		
1975 1976 1977 1978 1979 1980 1981 1982 965-B 2877 3135 3136 163-B 163-B 163-B 2523 2524 2523 310-A 310-A 310-B 5311	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Aviation Engine Management		
1975 1976 1976 1977 1978 1978 1980 1981 1982 965-A 965-A 3136 163-A 1163-A 1163-A 3147 2523 2524 310-A 310-A 310-A 311-5311 5311 5311 5313 5314	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Aviation Engine Management		
1975 1976 1977 1978 1979 1981 1982 1965-A 1965-A 1965-A 3135 3135 3135 5163-A 5163-C 5163-A 5164 3147 2522 2523 2524 2524 2525 3310-A 53110-B 5311 5315-A 53115-A 5315-A	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Alensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Combustion Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Accessories Aviation Engine Management Aviation Engine Manage		
1975 1976 19776 19778 1978 1981 1982 1965-A 1985-B 2877 3135 3135 3135 3163-A 5163-A 5163-A 2522 2523 2524 2525 5310-A 53110-B 53110-B 53115-A 5315-B 5315-B 5315-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Alensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Combustion Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Accessories Aviation Engine Management Aviation Engine Manage		
1975 1976 1977 1978 1979 1981 1982 1965-A 1965-B 2877 3135 3135 3136 5163-C 5163-C 5163-C 5163-C 522 2523 2524 2525 3310-A 3310-A 3310-B 33115-A 3315-B 5311 5313 5315-B 5316-B 5316-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Alensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Combustion Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Accessories Aviation Engine Management Aviation Engine Manage		
1976 1977 1978 1980 1980 1981 1982 1965-A 1965-B 2877 3135 5163-B 5163-A 5163-A 5163-A 2522 2523 2524 2525 5310-A 5310-A 5311 5315-B 5315-B 5315-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Fugine Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Fugine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Security Aviation Engine Aviation E		
1975 1976 1977 1978 1979 1980 1981 1982 1965-A 1965-A 3135 310-B 3131 3115 3	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Fugine Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Fugine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Security Aviation Engine Aviation E		
1975 1976 1976 1977 1978 1979 1980 1981 1982 1965-A 1965-B 2877 3135 3136 3163-C 5163-	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Fornulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Engine Management Aviation Fugine Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Fugine Management Aviation Fugine Management Aviation Engine Management Aviation Fugine Management Aviation Engine Security Aviation Engine Aviation E		
1975 1976 1977 1978 1979 1980 1981 1982 1965-A 1965-A 3136 3135 3135 3135 3163-B 5163-C 5164 3147 2522 2523 3310-B 5311 5312 5310-B 5311 5315-B 5316 5317 3315-B 5318-B 5318-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Alensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engines Combustion Engine Carburetors Elementary Principles of Electricity Aviation Fugine Ignition, Lubrication, and Cooling Aviation Engine Accessories Aviation Engine Management Aviation Engine Manage		

No.	Title	Lessons	Price
1975	Elements of Arithmetic	1	
1976	Fractions	1	
1977 1978	Decimals Weights and Massures	1	
1979	Weights and Measures Ratio and Proportion	1	
1980	Powers and Roots	î	
1981	Mensuration Formulas	1	
1982 1965–A	Mechanical Principles	1	
1965-B	Mechanical Principles	i	
2877	Heat	1	
3135 3136	Combustion and Fuels Principles of the Internal Combustion Fusing	1	
5163-A	Principles of the Internal Combustion Engine Aviation Engines do	1	
5163-B	dlo	1	
5163-C		1	
5164 3147	Elementary Principles of Electricity	1	
2522	QO. Aviation Engine Carburetors. Elementary Principles of Electricity Aviation Engiae Ignition. Lubrication and Cooling Aviation Engine Accessories. Aviation Engine Management Aviation Engine Maintenance The Slide Rule (optional) Final examination	î	
2523	Aviation Engine Accessories.	1	
2524 2525	Aviation Engine Management	1	
5361	The Slide Rule (ontienal)	1	
00.71	Final examination.	i	
		0.1	00.5
	Total	24	\$9.5
MTC	AIRPLANE MAINTENANCE		MTC
1975	Elements of Arithmetic	1	
1976	Fractions	1	
1977	Decimals	1	
1978 1979	Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1	
1980	Powers and Roots.	i	
1981	Mensuration	1	
1982 1965-A	Formulas Mechanical Principles	1	
1965-A	do	î	
5310-A	The Airplane and Its Parts	1	
5310-B	do Elementary Aeronautical Engineering	1	
5311 5312	Woodworking Tools	1	
5313	Metalworking Tools	1	
5314	Aircraft Woodwork	1	
5315-A 5315-B	Aireraft Metalwork do	1	
5316	Protection of Airplane Parts	î	
5317	Protection of Airplane Parts. Covering and Doping Airplane Surfaces	1	
5318-A	Airplane Instruments and Accessories	1	
5318-B 2530	Airplane Vaintenance	1	
5364	The Slide Rule (optional).	1	
	Airplane Maintenance The Slide Rule (optional) Final examination	I	
	Total	25	\$9, 45
EAV	ELEMENTARY ELECTRICAL ENGINEERING		EAV
1975	Elements of Arithmetic	1	
1976	Fractions.	1	
1977	Decimals Weights and Measures.	1	
1978 1979	Ratio and Proportion	1	
1980	Ratio and Proportion Powers and Roots	1	
1981	Mensuration	1	
1982 1984	Formulas Trigonometry and Graphs	1	
1621	Mechanics and Machine Elements. Electricity and Magnetism	1	
2700-A	Electricity and Magnetism.	1	
2700-B 2716	do	1	
2715	Characteristics of Direct Current Motors and Generators		
2704-A	Alternating Currents.	1	
2704-13	Alternating Currents do Alternators	1	
5292	Alternators	1	
5990 A			
5229-A 5229-B	do	1	
5229-A 5229-B	Transformers do do Alternating Current Motors	1	

1978	Weights and Measures	1	
1979	Ratio and Proportion	1	
1980	Powers and Roots	i	
1981	Mensuration.	i i	
1982	Formulas		
1984	Trigonometry and Graphs.	i	
5364	The Slide Rule (optional)	î	
1621	Mechanics and Machine Elements	î	
2700-A	Electricity and Magnetism.	i	
2700-B	do		
2716	Theory and Construction of DC. Motors and Generators	i	
2715	Characteristics of Direct Current Motors and Generators	1	
2704-A	Alternating Currents	1	
2701-B	dodo	. 1	
5292	Alternators	. 1	
5229-A	Transformers	. 1	
5229-B	dodo	1	
5229-C	do	1	
5219	Alternating Current Motors	1	
5228	Synchronous Converters and AC. Rectifiers	ī	
2714	Industrial Motor Applications	1	
2721-A	Electrical Measuring Instruments	1	
2721-B	do.	1	
2722	Practical Electrical Measurements	1	
5293-A	Watthour Meters.	1	
5293-B	do	1	
5293-C	do	1 1	
2370-A	Storage Batteries	1	
2370-B	do		
5286	Electric Illuminants	1	
2701	Illumination Principles	1	
5226	Theory of Industrial Electronic Tubes.	1	
0220	Theory of industrial facetronic Tubes	1	-

EBF

	Title	Lessons	Price
2746	Electron Tubes and their Industrial Applications.	1	
5365–A 5365–B	Electric Heating	1	
2741	Electric Furnaces	1	
2202	Electric Furnaces Electric Furnaces Elementary Chemistry Electroplating Local Distribution of Electrical Energy Logarithms	î	
3223	Electroplating	1	
5189	Local Distribution of Electrical Energy	i	
5254 4073-A	Logarithms	1	
4073-A 4073-B	Elements of Algebra dodo.	i	
4073-C	do	i	
5202	Complex Quantities in AC. Calculations	1	
5217	Line Calculations	1	
5190	Long Distance Transmission of Electrical Energy	1	
2729-A 2729-B	Practical Electric Wiring		
2729-C	dodo. Farm Wiring for Light and Power Antenna and Receiver Installations	i	
5227	Farm Wiring for Light and Power	î	
3319	Antenna and Receiver Installations	1	
5186	Switchgear	1	
2747	Protective Relays and Their Applications	i	
3220	Design of Magnets and Electromagnets Voltage Regulation of Alternating Current Circuits Electric Stations	1	
$\frac{5294}{5287}$	Voltage Regulation of Alternating Current Circuits	1 1	
5288	Electric Stations	ì	
5267-A	Electric Substations Operation of Electrical Machinery do Go	1	
5267-B	do	I	
5267-C	do	I	
2717	Efficiency Tests	7	
1965-A	Mechanical Principles (optional)	1	
1965-B 994	Motoricle of Construction	1	
2877	Efficiency Tests Mechanical Principles (optional) do Materials of Construction Heat	í	
2878		î	
2010	(Accompanied by Keenan's Steam Tables) Types of Steam Boilers		
2833	Types of Steam Boilers	i	
2315		1	
3224-A	Steam Electric Power Stations.	1	
3224-B 3222-A		1	
3222-A 3222-B	Hydroelectric Power Stations	î	
2900-A	Hydroelectric Power Stations. do. Water Turbines. do. do.	î	
2900-B	do	I	
	do		
2900-C		1	
2923	Geometrical Drawing (optional)	6	
2900-C 2923 2924 1946	Elements of Projection Drawing (optional) Mechanical Drawing (optional)	$\frac{6}{4}$	
2923 2924	Geometrical Drawing (optional) Elements of Projection Drawing (optional) Mechanical Drawing (optional) Final examination Total	6 4	
2923 2924 1946	Total.	6 4 7 1	\$42. 2
2923 2924 1946	Total. GENERAL RADIO	6 4 7 1	
2923 2924 1946 CGC	Total. GENERAL RADIO	96	\$42. 2 EGC
2923 2924 1946 CGC	Total. GENERAL RADIO	96	\$42. 2
2923 2924 1946 GGC 1975 1976 1977	Total. GENERAL RADIO	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978	Total. GENERAL RADIO	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978 1979	Total. GENERAL RADIO	96	\$42. 2 EGC
2923 2924 1946 CGC 1975 1976 1977 1978 1979	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots.	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978 1979	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots.	96	\$42. 2 EGC
2923 2924 1946 CGC 1975 1976 1977 1978 1979 1980 1981 4073–A	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978 1980 1981 4073-A 4073-B 4073-B	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978 1979 1980 1973 4073-A 4073-B 4073-C	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra	96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1980 1980 1981 4073-A 4073-B 4073-D 1981	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra	96	\$42. 2 EGC
2923 2924 1946 GGC 1975 1976 1977 1978 1979 1980 1973-4 4073-B 4073-B 4073-D	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra	96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 4073-B 4073-C 4073-D 1984 1984	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements.	96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 4073-B 4073-B 4073-B 4073-B 1984 5254 1621 2202	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements.	96 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 1931 4073-D 4073-D 1984 4073-D 1984 1984 1985 2002 2700-A	Total. GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Elementary Chemistry. Elementary Chemistry. Electricity and Magnetism	6 4 4 7 1 1 96	\$42. 2 EGC
2923 2924 1946 1946 2GC 1975 1976 1977 1981 4073-D 4073-D 1984 4073-D 1984 4073-D 2700-A 2700-A 2700-A	Total. GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Elementary Chemistry. Elementary Chemistry. Electricity and Magnetism	96 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 2GC 1975 1976 1977 1978 1980 1981 4073-A 4073-A 4073-A 2002 2700-A 2700-B 5271	Total. GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Elementary Chemistry. Elementary Chemistry. Electricity and Magnetism	96 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1946 1975 1976 1977 1981 4073-D 4073-D 1984 4073-D 1984 5254 5264 5270-A 2700-A 2700-A 2700-A 2700-A	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Mcasures Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Electricity and Magnetism do. DC. Calculations Alterneting Currents	96 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 4073-D 4073-D 4073-O 2700-A 2700-A 2700-B 5271 2704-A 2704-A	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Mcasures Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Electricity and Magnetism do. DC. Calculations Alterneting Currents	96 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1946 1975 1976 1977 1981 4073-D 4073-D 1984 4073-D 1984 5254 5264 5270-A 2700-A 2700-A 2700-A 2700-A	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Electricity and Magnetism. do DC. Calculations Alternating Currents. do Complex Quantities in AC. Calculations (optional). Sound and Acoustics	6 4 7 7 1 96 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 1973-A 4073-D 4073-D 1984 4073-C 4073-D 2202 2700-B 5271 2704-A 2704-B 5271 2704-A 2704-A 2704-B 5202 3309 2473	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do do do do do do Crigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Eleterticity and Magnetism do DC. Calculations Alternating Currents. do Complex Quantities in AC. Calculations (optional). Sound and Acoustics.	6 4 4 7 1 1 96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$42. 2 EGC
2923 2924 1946 1946 2GC 1975 1976 1977 1978 1979 1980 4073-D 4073-D 1984 4073-D 1984 5254 5264 5364 1621 2002 2700-B 5271 2704-B 5202 2473 3309 2473 3501	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Mcasures Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry Electricity and Magnetism do D. C. Calculations Alternating Currents. do. Complex Quantities in AC. Calculations (optional) Sound and Acoustics Principles of Radio Communication Radio Tubes	6 4 7 7 1 96 96 96 96 96 96 96 96 96 96 96 96 96	\$42. 2 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1980 1981 4073-B 4073-B 4073-C 4073-D 1984 5254 1621 2202 2700-A 2700-B 5271 2704-B 2704-B 2704-B 2704-B 3309 2473 3501 3501	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Eletericity and Magnetism. do DC. Calculations Alternating Currents. do. Complex Quantities in AC. Calculations (optional) Sound and Acoustics Principles of Radio Communication Radio Tubes Radio Tube Tables (no lesson).	6 4 7 7 1 96 96 96 96 96 96 96 96 96 96 96 96 96	\$42. 20 EGC
2923 2924 1946 1946 1975 1976 1977 1978 1979 1980 4073-D 4073-D 1981 4073-D 1981 4073-D 2202 2700-A 1621 2202 2700-A 2704-B 5271 2704-B 5204 2473 3309 2473 3501	Total GENERAL RADIO Elements of Arithmetic. Fractions. Decimals. Weights and Mcasures Ratio and Proportion. Powers and Roots. Mensuration. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry Electricity and Magnetism do D. C. Calculations Alternating Currents. do. Complex Quantities in AC. Calculations (optional) Sound and Acoustics Principles of Radio Communication Radio Tubes	6 4 4 7 1 1 96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

No.	Title	Lessons	Prie
3506	Methods of Testing Vacuum Tubes	1	
3507	Principles of Vacuum Tube Design	1	
3313	Principles of Vacuum Tube Design Batteries and Power Converters	i	
3314	Audio and Power Amplifiers	î	
3315	Batteries and Power Converters Audio and Power Amplifiers Microphones and Loud Speakers Public Address and Centralized Radio Systems Sound Picture Recording Sound Picture Projection Trand B. F. Records	1	
3327	Public Address and Centralized Radio Systems	1	
2492	Sound Picture Recording	1	
2493	Sound Picture Projection.	1	
3316 3317	Tuned R-F Receivers Superheterodyne Receivers Short Wave and Long Wave Receivers Antenna and Receiver Installations Automobile Redic Installations	1	
3317	Short Ways and Lang Ways Passiyers	1	
3319	Antanna and Racciver Installations	1	
3320	Automobile Radio Installation Service. Electrical Measurements in Radio Servicing Diagnosis of Receiver Troubles Voltage and Current Tests	1	
3321	Electrical Measurements in Radio Servicing	i	
3322	Diagnosis of Receiver Troubles	î	
3323	Voltage and Current Tests	î	
3324	Point to Point Resistance Tests Alinement of Tuned Circuits Cathode Ray Oscillograph in Radio Service	1	
3325	Alinement of Tuned Circuits	1	
3329	Cathode Ray Oscillograph in Radio Service.	1	
3328	Elimination of Radio Interference Theory and Construction of DC. Motors and Generators	1	
2716	Theory and Construction of DC. Motors and Generators	1	
5292 5229–A	Alternators Transformers	1	
5229-A 5229-B	t ransformersdo	1	
5229-C	do	1	
5219	Alternating-Current Motors	i	
5228	Synchronous Converters and AC. Rectifiers	î	
2721-A	Alternating-Current Motors. Synchronous Converters and AC. Rectifiers Electrical Measuring Instruments do. Storage Batteries	1	
2721-B	do	1	
5360-A	Storage Batteries	1	
5360-B	do	1	
3220	Design of Transformers. Codes and Code Practice (optional)	1	
$\frac{2728}{2014}$	Codes and Code Practice (antique)	1	
2474	Podio Antonnos	1	
2018	Underwood Ways Pedia Communication	1	
2489	Radio Telegraph Transmitters	1	
2490	do	i	
3549 3550-A	Radio Antennas. Undamped Wave Radio Communication Radio Telegraph Transmitters. do. Facsimile Transmission and Reception Principles of Television.	1	
3550-B 3550-C	$Do.^1$ $Do.^1$		
35-1	Police and Aviation Ground Station Transmitters	1	
35-2	Roadcast Transmitters Radio Transmitters Radio Transmitters for Telephone and Telegraph Wavemeters and Frequency Monitoring Units Point to Point Communication Commencial Drawing	1	
35-4 21-1	Radio Transmitters for Telephone and Telegraph	1	
	Wavemeters and Frequency Monitoring Units	I	
32-1 2923	Comparison Drawing	1 6	
2924	Geometrical Drawing Elements of Projection Drawing Mechanical Drawing Final examination	4	
1946	Mechanical Drawing	7	
1010	Final examination	í	
	That Calmington	<u>-</u>	
	Total	90	\$31
EHX	PRACTICAL RADIO SERVICING		E
3301-2	Direct Current and Ohm's Law	ī	
3302-2	Direct Current Networks	Ī	
3303	Magnetism and Electromagnetism	Î	
3303 X	Radio Job Sheet (no lesson)		
3304	Theory of Alternating Currents	1	
3305-2	Direct Current and Ohm's Law Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson)	1	
3506	Resonant Electrical Circuits	1	
3306X	Radio Job Sheet (no lesson)		
3307	Radio Job Sheet (no lesson) Transformers in Radio Receivers Motors and Generators	Į	
3308	Nitotors and Generators	I	
3309			
	Principles of Padio Transmission	;-	
3309X	Radio Job Sheet (no lesson) Principles of Radio Transmission Theory of Radio Tubes	1	
3310	Theory of readio Tubes		
3310 3311		1	
3310 3311 3312			
3310 3311 3312 3312X		- -	
3310 3311 3312 3312X 3313		I I	
3310 3311 3312 3312X 3313 3314 3315		I I I	
3310 3311 3312 3312X 3313 3314 3315 3316		I I 1	
3310 3311 3312 3312X 3313 3314 3315	Radio Receiving Systems. Radio Job Sheet. Batteries and Power Converters. Audio and Power Amplifiers. Microphones and Loud Speakers. Tuned Radio Frequency Receivers. Superheterodyne Receivers. Short-Wave and Long-Wave Receivers.	I I 1	

¹ In preparation.

EHX

No.	Title	Lessons	Price
3319 2729-A 2729-B 3320 3321 3322 3323 3324 3325 3329 3549 3326 3327 3328 3550-A	Antenna and Receiver Installations Practical Electric Wiring do Automobile Radio Installation and Service Electrical Measurements in Radio Servicing Diagnosis of Receiver Troubles Voltage and Current Tests Point-to-Point Resistance Tests Allnement of Tuned Circuits Cathode Ray Oscillograph in Radio Service Facsimile Transmission and Reception Radio Sales and Advertising Public Address and Centralized Radio Systems Elimination of Radio Interference Principles of Television 2 -do.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3550-C	do.²_Final examination	1 1	
	Total	36	\$11.09
	SHORT MECHANICAL DRAWING of drawing equipment may be obtained from the Institute at a cost of approx		SDZ [6.66]
2923 2924	Geometric Drawing Elements of Projection Drawing (5 plates of elementary geometrical figures for which no sample plates are furnished and the following 4 plates for which sample plates are furnished) 200-2 Projections—I. 201-2 Projections—II.	6	
1946	202-2 Conic Sections—III. 203-2 Intersections and Developments—IV. Mechanical Drawing (7 plates) 637 Common Conventions (1001). 638 Simple Machine Details (1002). 639 Fastenings (1003). 640 Helical Forms (1004). 641 Pulley and Coupling (1005). 642 Gear Connecting Rod and Piston (1006). 643 Knife Switch. Assembly and Details (1007).	7	
2249	Machine Sketching	1	
	Total	18	\$2.90
мш	READING SHOP BLUEPRINTS		МІН
1975 1976 1977 1978 2239 2240-B 2240-C 2240-D 2240-D 2209 2206 994 2202	Elements of Arithmetic Fractions Decimals Weights and Measures Elements of Blueprint Reading Reading Shop Blueprints do do do (Accompanied by Form 3028, Illustrations for Reading Shop Blueprints, pt. 4) Machine Sketching Measuring Instruments (optional) Precision Measuring Instruments (optional) Materials of Construction (optional) Elementary Chemistry (optional) Final examination	1 1 1 1 1	
	Total	15	\$5.45

² In preparation.

GRADE-SCHOOL SUBJECTS

WGS

[A student may enroll in as many subjects as he desires, but in order to receive a diploma he must complete $5\,\mathrm{subjects}]$

No.	Title	Lessons	Price
1956-A	Spelling		
1956-B	Spelling State of the state of	4	
	Total	8	\$1.35
	ARITHMETIC		
1975 1976	Elements of Arithmetic. Fractions	1	
1977	Decimals	ì	
1978	Weights and Measures	1	
1979 1980	Ratio and Proportion Powers and Roots	1	
1981	Mensuration	i	
1986-A 1986-B	Commercial Calculations	1	
1980-B	do	1	
	Total	9	2. 70
	CIVICS (AMERICAN GOVERNMENT)		
BV	American Government (Magruder)		
2940-A-L	American Government	12	
	Total.	12	2,00
	GEOGRAPHY		
BV 2935-A-N	Human Geography (J. Russell Smith) Geography	14	
	Geography		
	Total	14	2. 22
3077-A	GRAMMAR, ENGLISH English Grammar	1	
3077-B	do	i	
3077-C	do	1	
3077-D	do. do.	1	
3077-D 3077-E 3077-F	do	1	
3077-G 3077-H	do	1	
3077-II	do . do .	1	
3077-J	do	î	
3079	Capitalization and Punctuation . Elements of English Composition	1	
3078-A 3078-B	Elements of English Composition	1	
3078-C	do	i	
	Total	14	4. 10
	HISTORY, AMERICAN		
BV	History of the American People (Muzzey)		
3101	Manual of Suggestions American History		
3102-A-N	American History	14	
	Total	14	2.50
3080-A	LETTER WRITING	,	
3080-A 3080-B	Letter Writing	1	
3080-C	do	1	
3080-ID 3080-E	do-	1	
3080~E 3080~F	dodo	i	
1912	Indexing	1	
1913	Filing	1	
	Total	8	2.30
	PHYSIOLOGY AND HEALTH		
$^{ m BV}_{ m 2936-A-L}$	Healthful Living (Williams) Physiology and Health	12	
	Total.	12	1, 80

HIGH-SCHOOL SUBJECTS

WI

[A student may enroll in as many subjects as he desires, but in order to receive a diploma he must complete $5\,\mathrm{subjects}]$

No.	Title	Lessons	Price
1072 1	ALGEBRA, ELEMENTARY		
4073-A 4073-B	Elements of Algebra	1 1	
4073-C	do	1	
4073-D	do	1	
379-A 379-B	Algebrado	1	
379-C	de	1	
379-D	do	1	
379–E 379–F	do	1	
379-G	do	î	
2938 379-H	Graphs (for reference only)		
379-1	Algebrado	1	
379-J	do	î	
	Total	14	\$3.95
	COMPOSITION AND RHETORIC		
BV	Composition and Rhetoric (Tanner)		
3081	Composition and Rhetoric	14	
	Total.	14	1, 52
	ECONOMICS		
BV	Fundamentals of Economics (Hughes)		
2939-A-J	Economics	10	
	Total	10	1, 97
	GEOGRAPHY, PHYSICAL		
BV 2937-A-O	New Physical Geography (Tarr and Von Engeln) Physical Geography	15	
	Total	15	2. 55
	GEOMETRY, PLANE		
BV 2190	Plane Geometry (Wentworth and Smith)	6	
2100	Total	6	1, 25
	GEOMETRY, SOLID		
BV 2190	Solid Geometry (Wentworth and Smith) Solid Geometry	4	
2190	Total	4	1. 25
	HISTORY, ANCIENT		
73.77	, , , , , , , , , , , , , , , , , , ,		
BV 3090	History of Europe, Ancient and Medieval (Robinson and Breasted) Ancient History	8	
	Total	8	1, 72
	HISTORY, MEDIEVAL		
BV	History of Europe, Ancient and Medieval (Robinson and Breasted)		
3091	Medieval History	8	
	Total	S	1. 72
	HISTORY, MODERN EUROPEAN		
BV 3092	Modern History (Hayes and Moon) Modern European History	13	
	Total	13	2. 20
	1 Uta1.		

No.	Title	Lessons	Price
	PHYSICS		
BV 1807	Practical Physics (Black and Davis) Physics	11	
1507	Total	11	\$1.5
		=	=
7517	PHYSIOLOGY AND HEALTH		
B V 2936–A-L	Healthful Living (Williams) Physiology and Health	12	
	Total	12	1.8
	TRIGONOMETRY, PLANE		
BV 883	Plane Trigonometry (Wentworth)		
	Plane Trigonometry	7	
	Total Final examination.	7	1.
вүн	GOOD ENGLISH		вүн
BV	Winston Simplified Dictionary		
1920–A 1920–B	Good English	I 1	
1920-C	do	1	
1920-I) 1920-E	do	1 1	
1920-E 1920-F	d_0	1	
1920-G	do	1	
1920-H	do	1	
1920-I 1920-J	do	1	
1920-K	do	1	
1920-L	do	1	
1920-M		1	
1920-N 1920-O	do	1 1	
1320-0	Final examination	Î	
	Total	16	\$5.7
INX	HIGH-SCHOOL MATHEMATICS		INX
1975			
1976	Elements of Arithmetic	I	
	Fractions	1	
1977	Fractions Decimals	1 I	
1977 1978 1979	Fractions	1	
1978 1979 1980	Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots.	1 1 1 1	
1978 1979 1980 1981	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1 1 1 1 1	
1978 1979 1980	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations	1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra	1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B	Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do	1 1 1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do	1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C 4073-D 379-A	Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do Algebra	1 1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C 4073-D 379-A 379-B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do	1 1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C 4073-D 379-A 379-B 379-C	Fractions Decimals Weights and Measures Ratio and Proportion Proportion Proportion Prowers and Roots Mensuration Commercial Calculations do Clements of Algebra do do do Algebra do do do do do do do d	1 1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C 4073-D 379-A 379-B	Fractions Decimals Weights and Measures Ratio and Proportion Proportion Proportion Prowers and Roots Mensuration Commercial Calculations do do do do do do do do do do do	1 1 1 1 1 1 1 1	
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-D 379-A 379-A 379-B 379-C 379-D 379-F	Fractions Decimals Weights and Measures Ratio and Proportion Proportion Proportion Prowers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-D 379-A 379-B 379-C 379-D 379-E 379-G	Fractions Decimals Weights and Measures Ratio and Proportion Provers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-D 379-A 379-A 379-B 379-C 379-D 379-F	Fractions Decimals Weights and Measures Ratio and Proportion Proportion Proportion Powers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1986-B 4073-A 4073-B 4073-C 4073-D 379-B 379-B 379-F 379-F 379-F 379-H 2938 379-H	Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do do do do do Go Algebra do do Go Graphs (for reference only) Algebra		
1978 1979 1980 1986-B 1986-B 4073-B 4073-C 4073-C 4073-C 379-A 379-D 379-E 379-C 379-G 379-G 379-G 379-T 2938 379-T	Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do do do do do Go Algebra do do Go Graphs (for reference only) Algebra		
1978 1979 1980 1986-B 4073-B 4073-B 4073-C 4073-D 379-A 379-A 379-C 379-D 379-F 379-F 379-H 2038 379-H 2038 379-H 807-H 1379-H 1379-H 1379-H 1379-H 1379-H 1379-H 1379-H 1379-H 1379-H	Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Commercial Calculations do. do. do. do. do. do. do. do		
1978 1979 1980 1986-B 1986-B 4073-B 4073-C 4073-C 4073-C 379-A 379-D 379-E 379-C 379-G 379-G 379-G 379-T 2938 379-T	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1986-B 4073-B 4073-C 4073-C 4073-C 379-A 379-B 379-F 379-F 379-F 379-H 2938 379-H 2938 379-J BV 2190 BV	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1986-B 4973-B 4073-B 4073-B 379-A 379-A 379-E 379-E 379-F 379-F 379-B	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do		
1978 1979 1980 1986-B 4073-B 4073-C 4073-C 4073-C 379-A 379-B 379-F 379-F 379-F 379-H 2938 379-H 2938 379-J BV 2190 BV 2190 BV	Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Commercial Calculations do. do. do. do. do. do. do. do		

MARITIME SERVICE COURSES:

No.	Title	Lessons	Price
	Seamanship Shin Construction	6 9	\$3.
	Maritime Law for Seamen Meteorology (Pan American Airways)	6 15	2.

 $^{^3}$ Diploma will be issued only on completion of combined course in Seamanship, Ship Construction, and Maritime Law.

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